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June 1965

PHOTOGRAPHIC INTERPRETATION REPORT

PROBABLE SOLID PROPELLANT ROCKET MOTOR TEST FACILITY AND ASSOCIATED PRODUCTION FACILITIES, KEMEROVO, USSR



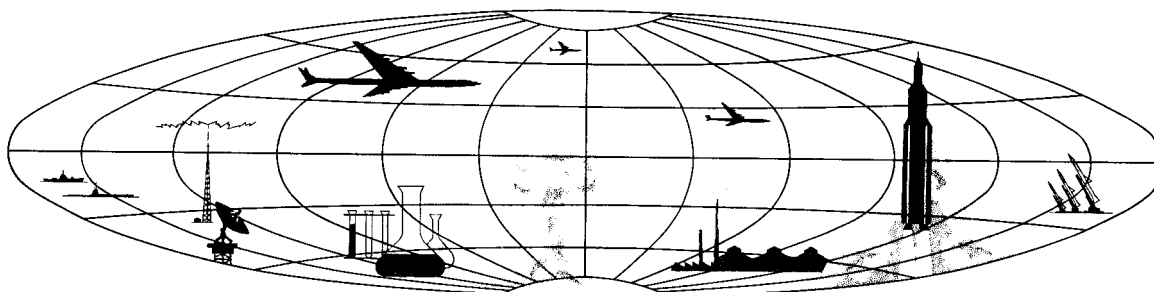
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PROBABLE SOLID PROPELLANT ROCKET MOTOR TEST FACILITY AND ASSOCIATED PRODUCTION FACILITIES, KEMEROVO, USSR

INTRODUCTION

This report describes a probable solid propellant rocket motor test facility and associated production and storage facilities identified near Kemerovo, USSR (Figure 1). The test facility is located at 55-26N 85-57E, on the north edge of Kemerovo Ammunition Loading and Explosives Plant Raketa 392.

The production and storage facilities occupy separately secured areas nearby.

Kemerovo Ammunition Loading and Explosives Plant Raketa 392 was first observed on photography of [REDACTED] provided the only good-quality coverage in [REDACTED]. The site was not observed in [REDACTED], but photography of the facility was obtained in [REDACTED].

When first observed in [REDACTED] the plant existed as presently seen except that construction was underway at the Possible Solid

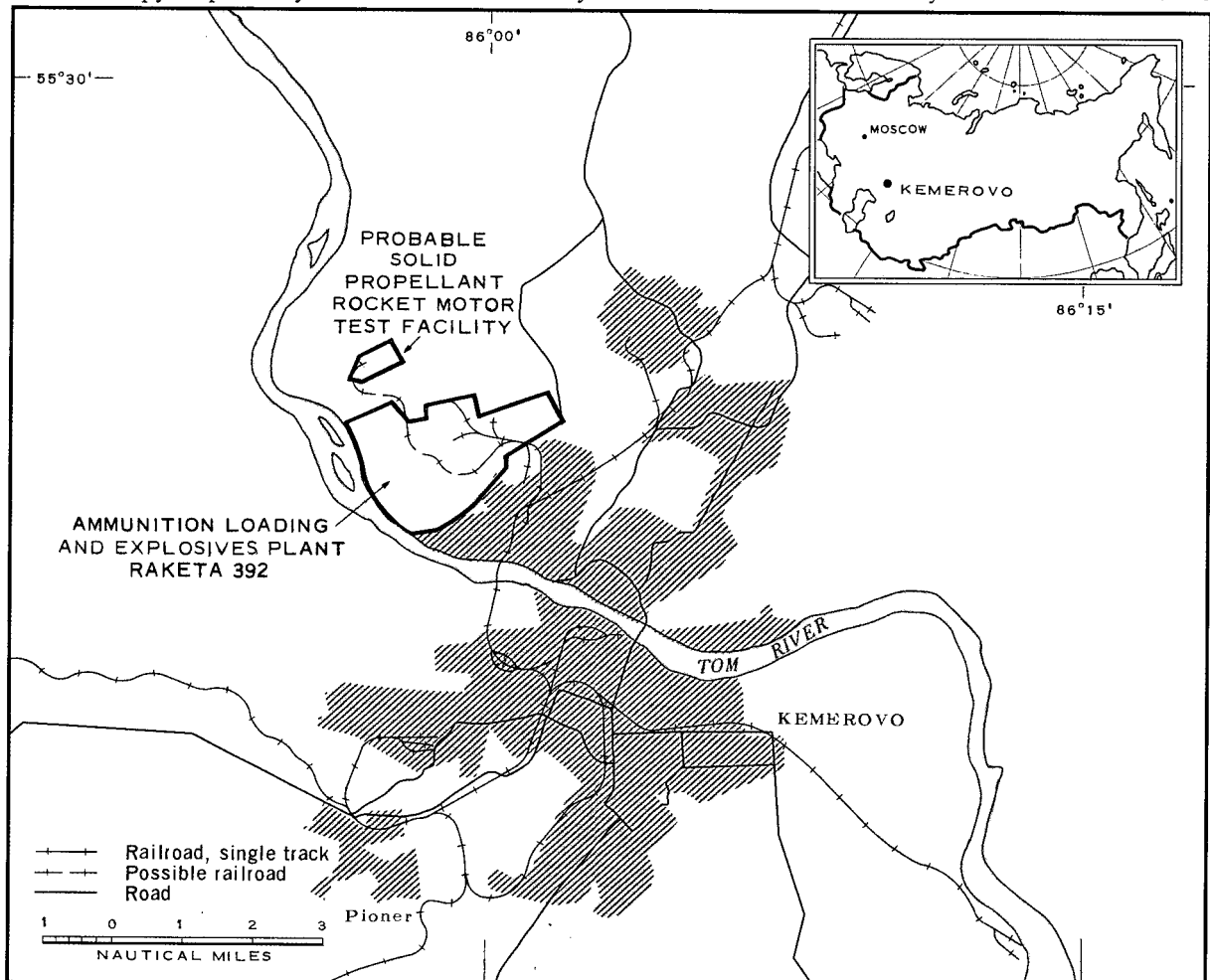


FIGURE 1. LOCATION MAP.

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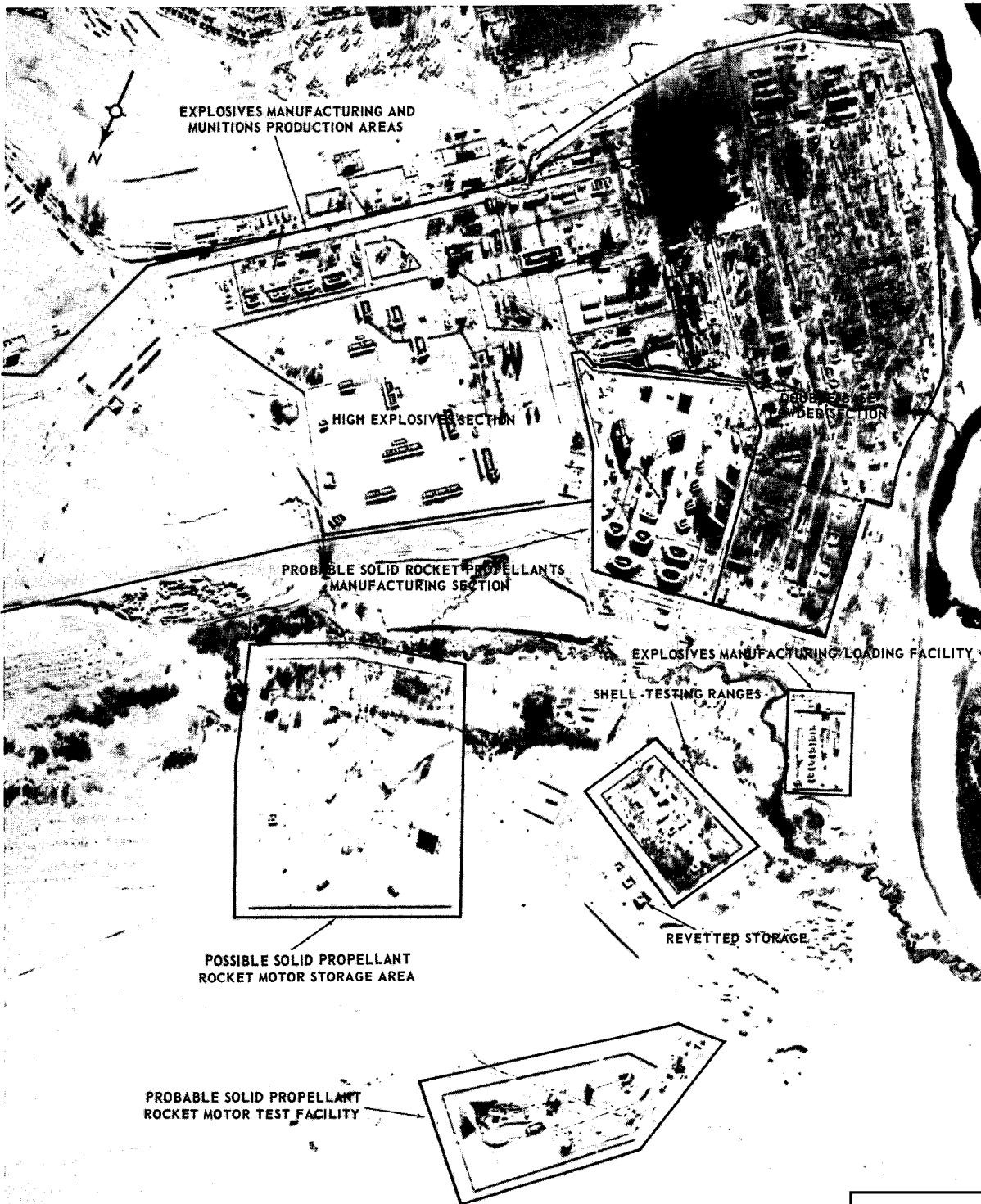


FIGURE 2. KEMEROVO PROBABLE SOLID PROPELLANT ROCKET MOTOR TEST FACILITY AND AMMUNITION LOADING AND EXPLOSIVES PLANT RAKETA 392, USSR,

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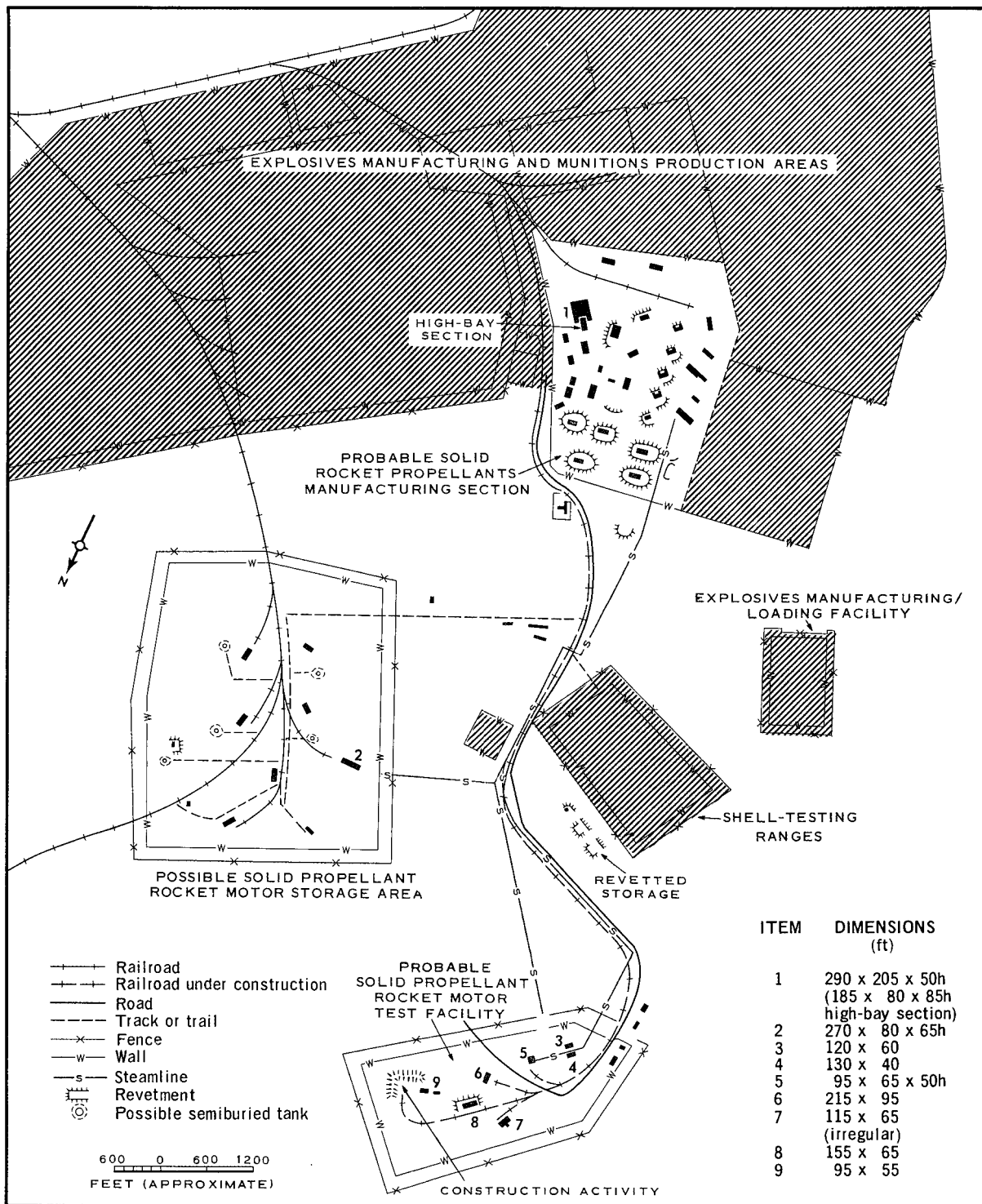


FIGURE 3. PROBABLE SOLID PROPELLANT ROCKET MOTOR TEST FACILITY AND ASSOCIATED FACILITIES.

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Propellant Rocket Motor Storage Area and the Probable Solid Rocket Propellants Manufacturing Section. Construction of the Probable Solid Propellant Rocket Motor Test Facility had not yet started.

25X1D By [] both the storage area and the manufacturing section appeared to be complete, and the test facility was in a late stage of construction. The concurrent construction of the test facility and the propellants manufacturing section, plus new construction in the possible storage area, indicates a probable interrelationship of the 3 facilities. The period of construction also corresponds to the years [] when other Soviet solid propellant facilities 1-5/ were under construction.

PROBABLE SOLID PROPELLANT ROCKET MOTOR TEST FACILITY

The Probable Solid Propellant Rocket Motor Test Facility (Figures 2, 3, and 4) occupies an area of approximately 80 acres surrounded by both a wall and a fence. The most prominent feature of the facility is an L-shaped revetment 50 feet high, the legs of which measure 330 and 240 feet long at the apexes. The revetment is sited in such a way that it will protect the storage area to the southeast from shock and vibration. There are 8 buildings within the walled area, 1 of which is revetted on 3 sides and may be the control building. Dimensions of the principal structures are presented in the table inset in Figure 3. Grading patterns within the area indicate that rail spurs will serve at least 3 of the buildings and the test stand/cell. Two steamlines also enter the facility.

25X1D Construction of this installation began before [] at that time the south leg

25X1D of the L-shaped revetment was visible. By [] the L-shaped revetment appeared to be nearly completed, and most of the buildings discernible on the most recent photography were

present or under construction.

Photographic coverage of []

[] reveals that the continuing construction activity has been concentrated in the interior angle of the L-shaped revetment where a possible vertical test stand is under construction. Figure 4 presents a perspective view of the revetment and the surrounding area of the test facility.

This facility is similar in some ways to solid propellant rocket motor test facilities at Krasnoyarsk, Perm, Sterlitamak, Biysk, and Kamensk-Shakhtinskiy. 1-5/ It does not, however, include an H-shaped or a modified H-shaped probable assembly and checkout structure found at 4 of the other 5 sites. This facility also differs in that it has a large L-shaped revetment rather than a horizontal blast deflector.

POSSIBLE SOLID PROPELLANT ROCKET MOTOR STORAGE AREA

The Possible Solid Propellant Rocket Motor Storage Area, over 100 acres in area, is also secured by both a wall and a fence. It contains 7 or 8 storage buildings, 4 possible semiburied tanks, one small structure in a wraparound revetment, and a newly built rectangular building considerably higher than the others (item 2, Figure 3). All of the structures except Building 2 were present when the area was first seen in []

The tallest building (item 2) is 65 feet high and could be used as a temperature-conditioning structure or possibly as a short-term storage facility for large rocket motors. This building is similar to a building in the storage area adjacent to the Probable Solid Propellants Manufacturing Area at Kamensk-Shakhtinskiy. 5/ Photography of [] revealed ground scarring in the area now occupied by Building 2; construction of the building could be observed in [] it appeared to have been completed by []

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[] No other significant changes have occurred in this area.

PROBABLE SOLID ROCKET PROPELLANTS MANUFACTURING SECTION

The Probable Solid Rocket Propellants Manufacturing Section is located between the pre-existing high-explosives and double-base powder manufacturing sections of the Raketa 392 plant (Figure 2). This new section is almost identical to the Probable Solid Propellants Manufacturing Area at Kamensk-Shakhtinskiy 5/ and is similar to the larger of the 2 Probable Solid Propellants Manufacturing Areas at Perm. 2/

The majority of the facilities in this section at Kemerovo appeared to have been present in [] although most of them were then under construction. The better-quality photography of [] revealed continuing construction; the high-bay section of Building 1 had been erected by that time, and the entire building was apparently complete by [] of the same year. The 85-foot high bay could be used for assembling and casting large solid propellant rocket motors.

Almost all of the structures in the section, except 2 or 3 buildings at the west side, appear to have been completed by [] and these exceptions appeared to be essentially complete on photography of [] Photography of [] revealed smoke or steam rising from at least one of the structures in the row of buildings on the west side.

CONCLUSIONS

The construction of a probable solid propellant rocket motor test facility and a probable solid rocket propellants manufacturing section at Kemerovo during the same time period that analogous facilities were being added to 5 other pre-existing explosives plants in the USSR indicates that all may have the same function. However, the L-shaped configuration of the blast deflector and the construction activity within the angle of the "L" suggest that the Kemerovo facility may be designed for vertical testing as opposed to the horizontal testing conducted at the other sites.

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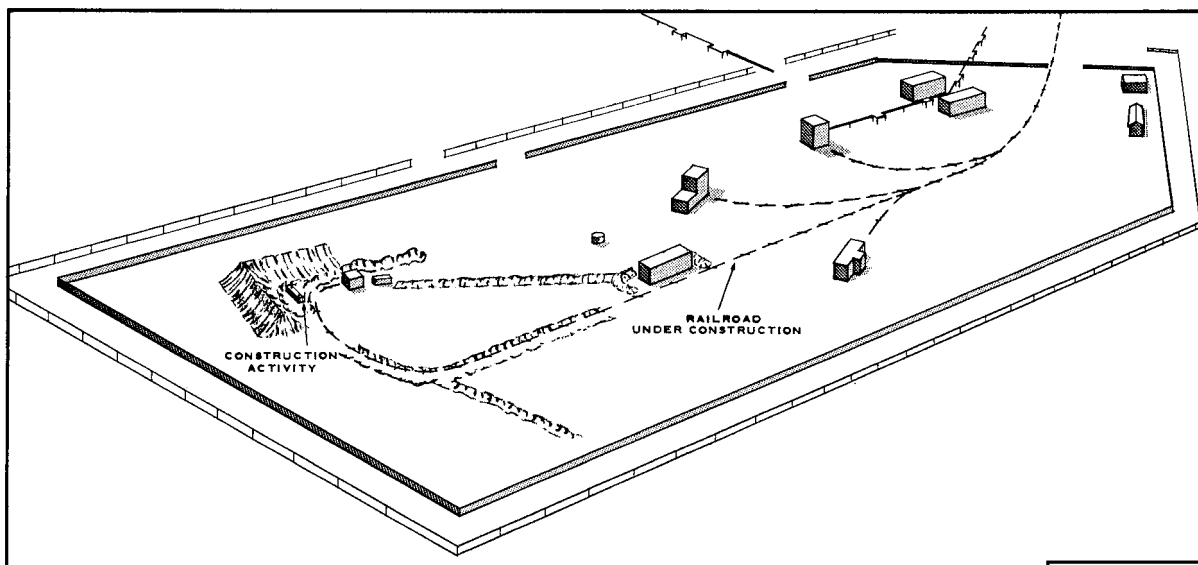


FIGURE 4. PERSPECTIVE VIEW OF PROBABLE SOLID PROPELLANT ROCKET MOTOR TEST FACILITY.

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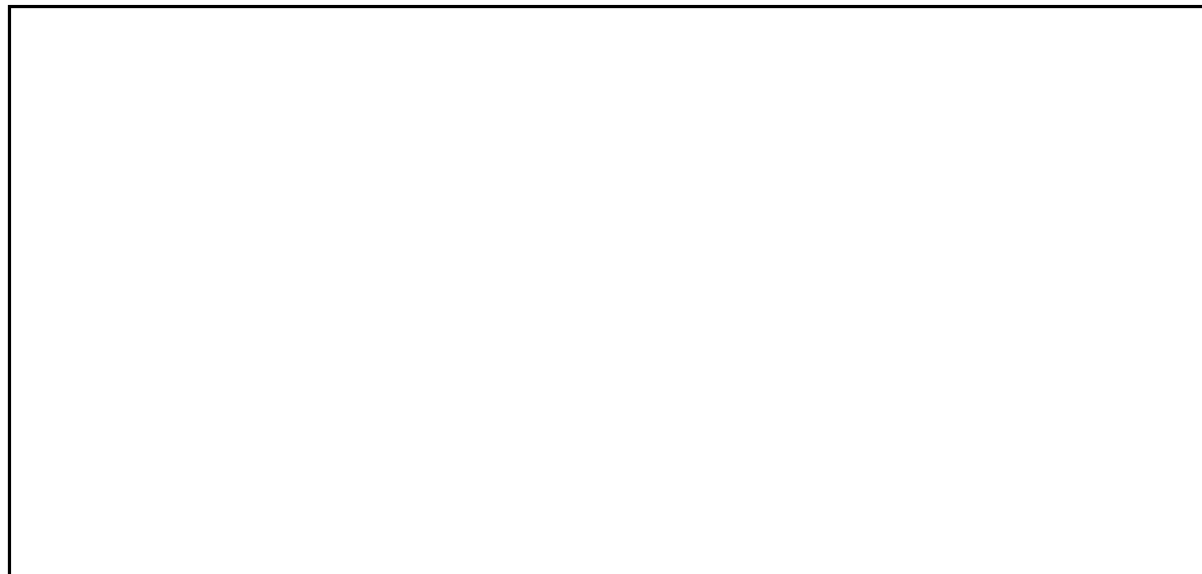
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REFERENCES



MAPS OR CHARTS

SAC. US Air Target Chart, Series 200, Sheet 0161-2HL, 2d ed, Jul 62, scale 1:200,000 (SECRET)

DOCUMENTS

1. NPIC. [redacted] *Probable Solid Propellants Test Facility and Associated Production Facilities, Krasnoyarsk, USSR, Jan 65 (TOP SECRET [redacted])*
2. NPIC. [redacted] *Probable Solid Propellants Test Facility and Associated Production Facilities near Perm, USSR, Jan 65 (TOP SECRET [redacted])*
3. NPIC. [redacted] *Probable Solid Propellants Test Facility and Associated Production Facility, Sterlitamak, USSR, Feb 65 (TOP SECRET [redacted])*
4. NPIC. [redacted] *Probable Solid Propellants Test Facility and Associated Production Facilities, Biysk, USSR, Feb 65 (TOP SECRET [redacted])*
5. NPIC. [redacted] *Probable Solid Propellants Test Facility and Associated Production Facilities, Kamensk-Shakhtinskiy, USSR, Feb 65 (TOP SECRET [redacted])*

REQUIREMENT

GMAIC. 14-65/PWG-1

NPIC PROJECT

11144/65 (partial answer)

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